

ABSTRACT OF THE DISCLOSURE

A voltage detector is disclosed, which has a resistor pair, a reference resistor, at least one transistor pair and a comparator. One resistor of the resistor pair is coupled between an input voltage and one of the transistor pair, and the other resistor is coupled between the input voltage and the reference resistor. The other transistor is coupled between the reference resistor and a ground voltage. Thus, a reference detection voltage and a voltage to be detected are generated. The comparator compares the reference detection voltage and the voltage to be detected to obtain a resulting output, wherein temperature effect can be eliminated by adjusting an area ratio of the transistors and an area ratio of the reference resistor to the resistor pair.